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Chief, RAD/EP

Chief, RAD Laboratory

Evaluation of Tree Clamp Mounting Device

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1. Attached herewith is a Class "C" evaluation of the  Tree Clamp Mounting Device prepared by the Analysis and Appraisal Unit of the Laboratory.

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2. The subject tree clamp will be retained in storage at the Laboratory unless disposition instructions to the contrary are received.

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Attachment (1)

Lab/JGB/bao (3 January 1955)

## Distribution:

Original & 1 - Addressee  
 1 - R&D Chrono  
 1 - R&D Lab  
 1 - Dev/s

## **AN EXAMINATION OF A TREE CLAMP GENERATOR MOUNTING DEVICE**

**Report No. 109C  
3 January 1955**

### **INTRODUCTION**

The tree clamp mounting device was submitted by the [redacted] to the Laboratory. It is a prototype and the only one of its kind in existence.

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### **DISCUSSION**

The tree clamp is of heavy duty construction, designed to support the GN-58 generator.

There are provisions for mounting the unit on a tree or post whose diameters range between 3 and 15 inches. Web fabric belting is provided as a means of securing the clamp to the tree or post.

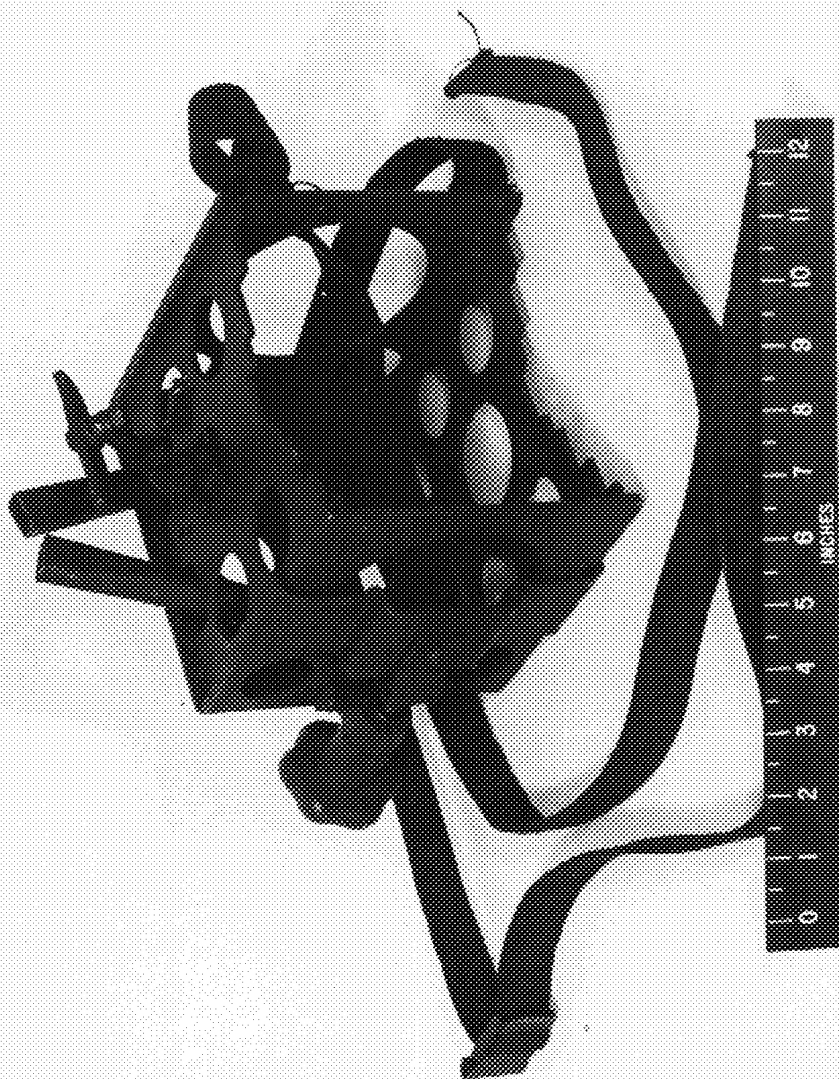
The tree clamp measures 8 3/4" x 8 1/2" x 8" and occupies 595 cubic inches. Its weight is 8 pounds. It is constructed of 1/8" plate steel and is welded at the seams.

The attached photographs are demonstrative of its application with the hand crank generator.

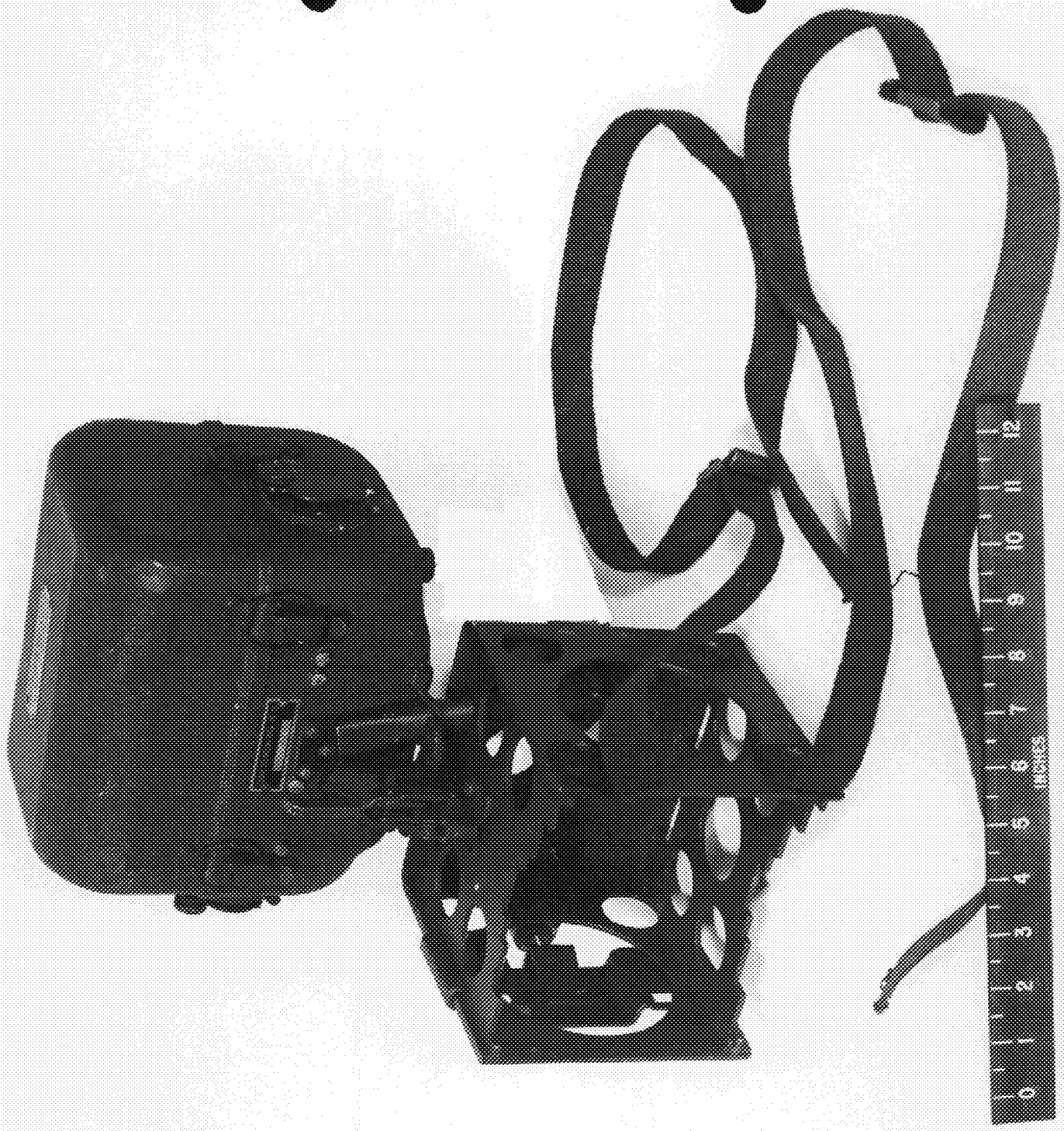
### **CONCLUSIONS**

A reduction of over-all bulk might be accomplished by incorporating some means of hinging so that the sides of the clamp could fold for transporting purposes.

Weight reduction without impairing its strength might be attained by the use of lighter weight metal such as aluminum alloy or magnesium metal. In its present state the clamp is too large and too heavy for portability.



Photograph 1



Photograph 2